

PRESSURE-SENSITIVE CONDUCTIVE MATERIAL

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Abstract

PURPOSE: To meet formation of a thin film by forming an organic molecule film on the surface of a film-like conductive material.

CONSTITUTION: Conductive material is made to have pressure sensitive conductivity by forming an organic molecule film on the surface of a film-like conductive material. That is, the organic molecule film exists as an insulating layer on the surface of the conductive material so that an electrode and the conductive material are conducted with the molecule film compressed according to an amount of pressure at the time of being pressed, though the electrode and the conductive material are not conducted at the time of being not pressed. And then when released again, the compressed film returns to a non-conductive state, that is, the film changes the state reversibly to carry the pressure sensitive conductivity and consequently to be able to meet needs of thin-film formation. Thereby, it is applicable to an input/output device and the like for various kinds of pressure sensitive sensors, touch-panels and so on. And also since the sensitivity of the pressure sensitive conductivity is weakened by formation of an organic molecule film on the surface of the film, it is applicable to various kinds of use.

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